


Infosafe No™ 3NV48	Issue Date : March 2025	ISSUED by NUFARM
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Product Name **BOTECTOR**

Section 1 - Identification

Product Identifier	BOTECTOR
Product Code	02560
Product Type	Biological Fungicide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	A biological fungicide to protect grapes from grey mould (<i>Botrytis cinerea</i>) and kiwifruit from <i>Sclerotinia</i> (<i>Sclerotinia sclerotiorum</i>).
Other Information	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Respiratory sensitisation Category 1, Skin sensitisation Category 1, Designed for biocidal action.
Signal Word (s)	DANGER
Hazard Statement (s)	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary Statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
Pictogram (s)	Exclamation mark, Health hazard, Skull and Crossbones,
	
Precautionary Statement – Prevention	P261 Avoid breathing dust. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P285 In case of inadequate ventilation wear respiratory protection. P273 Avoid release to the environment.
Precautionary Statement – Response	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P363 Wash contaminated clothing before reuse. P391 Collect spillage.
Precautionary Statement – Disposal	P501 Dispose of contents only by using according to the label, or at an appropriate landfill.

Section 3 - Composition and Information on Ingredients

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Chemical Characterization	Solid						
Information on Composition	5 x 10 ⁹ cfu/g (colony forming units)/g						
Ingredients	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Name</u></th> <th style="text-align: left;"><u>CAS</u></th> <th style="text-align: left;"><u>Proportion</u></th> </tr> </thead> <tbody> <tr> <td>Aureobasidium pullulans strains</td> <td>67891-88-7</td> <td>1000 g/kg</td> </tr> </tbody> </table>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	Aureobasidium pullulans strains	67891-88-7	1000 g/kg
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Aureobasidium pullulans strains	67891-88-7	1000 g/kg					

Section 4 - First Aid Measures

First-aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance even if there are no immediate symptoms.
Advice to Doctor	Treat symptomatically.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	If involved in a fire, it may emit oxides of carbon.
Special protective equipment for fire-fighters	Breathable air apparatus must be worn if material is involved in fires especially in confined spaces.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Decomposition Temperature	Information is not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

Section 6 - Accidental Release Measures

Spills and Disposal	Sweep up product without generating dust. Collect spilled material and waste in sealable open-top type containers for disposal. Dispose of at a landfill in accordance with local regulations.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent product or washings from entering drains, waterways or sewers, and prevent contamination of soil.

Section 7 - Handling and Storage

Handling and Storage	BOTECTOR may only be applied by professional applicators.
Precautions for Safe Handling	It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided

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information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017.
CERTIFIED HANDLER: Not required.
TRACKING: Not required.
RECORD KEEPING: Not required.

Conditions for safe storage, including any incompatibilities Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. Store (refrigerated) at less than 8°C. DO NOT freeze. The product is stable for 30 months if stored this way. In the absence of cold storage, product stored at 20°C or below is stable for 18 months. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

Section 8 - Exposure Controls and Personal Protection

Exposure Controls/Personal Protection Restricted Entry Interval (REI): All crops: Until dry
 The person in charge is responsible for making sure no person enters the application area before the end of the REI. If entering an application area during the REI, ensure appropriate Personal Protective Equipment (PPE) is worn.

Occupational Exposure Limits (OEL) No exposure limits (TEL, ADE or PDE) values have been set for this product.

Appropriate Engineering Controls Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist, a washable hat, protective gloves and disposable face mask covering mouth and nose. In case of inadequate ventilation wear respiratory mask.

Hygiene Measures Do not eat, drink or smoke while using.
 Remove protective clothing and wash hands and face thoroughly before meals and after work.
 Wash contaminated clothing daily after use.

Section 9 - Physical and Chemical Properties

Form Solid

Appearance Off white to light pink granules

Odour Odour similar to bread.

Decomposition Temperature Information is not available.

Solubility in Water Disperses in water.

pH 6.6 (10g/L)

Vapour Pressure non volatile

Vapour Density (Air=1) Not applicable.

Odour Threshold Information is not available.

Partition Coefficient: n-octanol/water Information is not available.

Flash Point Not applicable.

Flammability Product is not flammable.

Auto-ignition Temperature Not applicable.

Flammable Limits - Lower Not applicable.

Flammable Limits - Upper Not applicable.

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Initial Boiling Point and Boiling Range	Not applicable.
Kinematic Viscosity	Not applicable.
Particle Characteristics	Information is not available.
Relative Density	Information is not available.
Melting/Freezing Point	Information is not available.

Section 10 - Stability and Reactivity

Chemical Stability	Stable at 20°C for 18 months and at cool storage (less than 8°C) for 30 months.
Conditions to Avoid	Do not expose the product to temperatures above 40°C. Do not store the product above 20°C for a longer period.
Incompatible Materials	Avoid contact with strong oxidising agents and strong reducing agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (rat) >2000 mg/kg for this product
Acute Toxicity - Inhalation	LC50 (rat) (4hr) is greater than the maximum attainable test concentration (5.18 mg/l air).
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for this product
Ingestion	No specific symptoms. Possible generalised symptoms include nausea and vomiting.
Skin	Dusts may cause slight skin irritation.
Corrosion/Irritation	
Serious Eye Damage/Irritation	Dusts may cause slight irritation to the eyes.
Respiratory Sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitisation	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Information is not available.
Reproductive Toxicity	Information is not available.
STOT - Repeated Exposure	Information is not available.
Aspiration Hazard	Information is not available.

Section 12 - Ecological Information

Ecotoxicity	Information is not available.
Persistence and Degradability	Readily biodegradable.
Mobility	Information is not available.
Bioaccumulative Potential	Information is not available.
Other Adverse Effects	Information is not available.

Section 13 - Disposal Considerations

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Product Disposal Dispose of product only by using according to the label, or at an approved landfill.

Container Disposal Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

Section 14 - Transport Information

Transport Information It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

Storage and Transport Not classified as Dangerous Goods for transport in New Zealand.

Other Information Do not carry more than 3kg of BOTECTOR on a passenger service vehicle.

Section 15 - Regulatory Information

National and or International Regulatory Information Registered pursuant to the ACVM Act 1997, No. P9700
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to the HSNO Act 1996, Approval Code HSR101029
See www.epa.govt.nz for approval controls.

Packaging and Labelling Read label before use.

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS January 2024.

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE
24Hr Tollfree Emergency No: 0800 651 911
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

Revisions Highlighted Update to include WorkSafe set Re-entry Intervals (REIs).

...End Of MSDS...

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